

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL PERMIT

EPA Region 5 Records Ctr.



298186

PERMIT NO.: 1983-EP-1710

DATE ISSUED: March 29, 1983

FINAL PLANS, SPECIFICATIONS, APPLICATION
AND SUPPORTING DOCUMENTS

LOG NUMBERS: 1710-83

PREPARED BY: Bunker Ramo, Eltra Corp.

SUBJECT: AMPHENOL CONNECTOR DIVISION, BROADVIEW, COOK COUNTY (MSDGC -- WSW -- STP)
-- Industrial Pretreatment Facility

PERMITTEE TO OPERATE
Bunker Ramo, Eltra Corp.
2801 South 25th Avenue
Broadview, Illinois 60153

Permit is hereby granted to the above designated permittee to operate water pollution control facilities described as follows:

Industrial pretreatment facility consists of cyanide destruction tank, chrome reduction tank, neutralization tank, clarifier filter press and necessary appurtenances to provide treatment to electroplating wastewater with discharge to an existing 12 inch sanitary sewer, thence tributary to the MSDGC -- WSW -- STP (DAF = 288,000 GPD, 2,880 P.E.).

This Operating Permit expires on March 15, 1988.

This Permit is issued subject to the following Special Condition(s). If such Special Condition(s) require(s) additional or revised facilities, satisfactory engineering plan documents must be submitted to this Agency for review and approval for issuance of a Supplemental Permit.

SPECIAL CONDITION 1: The operator of the herein permitted facility shall be certified by this Agency.

SPECIAL CONDITION 2: The sludge produced by this facility shall be disposed of in an Agency approved manner.

SPECIAL CONDITION 3: The issuance of this permit does not relieve the permittee of the responsibility of complying with the general pretreatment regulations (40 CFR 403) and/or any effluent limitations developed pursuant to Sections 301, 306 or 307 of the Clean Water Act.

THE STANDARD CONDITIONS OF ISSUANCE INDICATED ON THE REVERSE SIDE MUST BE COMPLIED WITH IN FULL. READ ALL CONDITIONS CAREFULLY.

TGM:YVS:sd/6755c/13
cc: EPA - Region 2
Records Unit
Permit Section
Mr. Al Griedraitis, MSDGC

DIVISION OF WATER POLLUTION CONTROL


Thomas G. McSwiggin, P.E.
Manager, Permit Section

111.532-90009
WPC-146 (10/81)

Page 5 of 29

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter III 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL
PERMIT SECTION
Springfield, Illinois 62706

LOG # 1710-83

SCHEDULE A SEWER CONNECTION N/A (Existing System)

1. NAME OF PROJECT: _____
2. TYPE OF SERVICE: Residential ☐; Commercial ☐; Light Industrial (Domestic Waste Only) ☐; Manufacturing ☐; Recreational ☐; Other _____
3. APPROXIMATE TIME SCHEDULE: Estimated Construction Schedule: Start of Construction _____; Date of Completion _____; Occupancy or Operation Schedule: Date Occupancy or Operation Begins _____; 100% Occupancy or Operation to be Reached by _____
4. RESIDENTIAL BUILDINGS: Number of Buildings _____ Total Dwelling Units _____ Estimated Total Population _____
5. NON-RESIDENTIAL BUILDINGS: Number of buildings to be served under this Permit _____; Describe use of Building(s) _____; Principal product(s) or activities _____; Estimated number of employees _____; Estimated number of occupants (transients) _____; Estimated total flow _____ gpd; Estimated Population Equivalent (One Population Equivalent is 100 gallons of sewage per day, containing 0.17 pounds of BOD₅ and 0.20 pounds of suspended solids) flow P.E. _____; BOD P.E. _____; Suspended Solids P.E. _____.
6. Total flow for this project: DAF _____ GPD; DMF _____ GPD.
7. Non domestic liquid waste is ☐ is not ☐ produced inside the buildings. If liquid wastes other than domestic are produced, submit Schedule N.
8. SUMMARY OF SEWERS:

Pipe size - inches					
Total Length - feet					
Min. slope used - %					
Max. slope used - %					
Min. depth of sewers - feet					
Pipe Material & Specs.					
Joint Material & Specs.					
Total Manholes					
Max. Distance Between Manholes					
Class Bedding					

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9. EXISTING SEWER SYSTEM:
 - 9.1 Size and location of the existing sanitary sewer to which this project will connect Existing 12" Sewer
 - 9.2 Has a detailed sewer map been filed with this Agency? YES ☐ NO ☐
 - 9.3 Tributary to Interceptor(s) MSDAC - WSW STP
Adequate Reserve Transport Capacity? YES ☐ NO ☐
 - 9.4 Tributary to Pump Station(s) _____
Adequate Reserve Pumping Capacity? YES ☐ NO ☐
10. EXISTING SEWAGE TREATMENT PLANT:
Name of sewage treatment plant this project is tributary to _____
Adequate Reserve Treatment Capacity? YES ☐ NO ☐

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SCHEDULE G SLUDGE DISPOSAL & UTILIZATION

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1. Name of Project Amphenol Pretreatment Plant

2. General Information

2.1 Source(s) Electroplating pretreatment sludge

2.2 Volume (on both a wet and dry basis) 36,316 gallons in 1982

2.3 Sludge to be disposed of is Liquid Dry clay-like consistency

2.4 Sludge is: Aerobically digested Anaerobically digested Heat anaerobically digested Raw

Chemically Stabilized Composted WTP Lime Sludge WTP Alum Sludge N/A

WTP Iron Sludge Other

Mixture If mixture, describe N/A

2.5 Is the sludge defined as hazardous by State or Federal Law X YES NO; if yes, Basis Chemical analysis

2.6 Is sludge to be stored on site X YES NO; if yes, type of storage, lagoon storage tank other X

capacity of storage, 180 cu. ft. 26 days storage Capacity

Methods of Sludge Disposal and/or Utilization do not store over 90 days

3.1 Land Application ☐ N/A

3.1.1 Indicate the number of dry tons of sludge per year to be disposed by each of the following methods:

Agricultural land Commercial Fertilizer Production Disturbed Land Reclamation

Silviculture Horticultural Lands Public Distribution Other

3.1.2 Sludge Disposal Site Location. Provide a map (USGS Quadrangle map or Soil Survey Map) showing location.

Name of USGS Quadrangle maps (7.5 or 15 minute) or Soil Survey Map

3.1.3 Is sludge to be stored at disposal site? YES NO. If yes, storage volume Cubic Feet

3.1.4 Name(s), address(es) and license number(s) of sludge hauler(s)

3.1.5 Provide a copy of sludge user information sheet and signed copies for any known users.

3.1.6 In a narrative description provide operating practices and design features to prevent ground and/or surface water pollution, calculations supporting storage capacity, total acres available, soil characteristics, etc.

3.1.7 Basis of Design and Operation: Submit calculations of sludge application rate for agronomic rate, organic loading and metal loading rate.

3.2 Landfilling ☐ on-site ☒ off-site

3.2.1 Sanitary Landfill ☐ Special Wastes Landfill ☐ Hazardous Waste Landfill ☒ Other ☐

3.2.2 Name and Location of Landfill(s) Chicago/CID (Chemical Waste Management)

130th & Calumet Expwy, Calumet City, IL. 60409

3.2.3 IEPA Permit Number(s) 03160030

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SCHEDULE J INDUSTRIAL TREATMENT WORKS CONSTRUCTION OR PRETREATMENT WORKS

1. NAME AND LOCATION:

1.1 Name of project Amphenol Pretreatment Plant (Broadview)

1.2 Plant Location

1.2.1	<u>SW 1/4</u>	<u>22</u>	<u>39N</u>	<u>12E</u>	<u>Third</u>
	Quarter Section	Section	Township	Range	P.M.
1.2.2	Latitude	<u>41</u> °	<u>51</u> °	<u>10</u> °	'North
	Longitude	<u>85</u> °	<u>51</u> °	<u>37</u> °	'West

1.2.3 Name of USGS Quadrangle Map (7.5 or 15 Minutes) Berwyn, IL. N4145-W8745/7-5

2. NARRATIVE DESCRIPTION AND SCHEMATIC WASTE FLOW DIAGRAM (see instructions)

See attachments: Sanitary Sewer - Plot Plan, Sanitary Sewer Sample Stations,
Pollution Control Facility - Flow Diagram, Sample Station Flow Rates

2.1 PRINCIPAL PRODUCTS: Electrical and electronic equipment connectors

2.2 PRINCIPAL RAW MATERIALS: Aluminum, Copper, Brass

3. DESCRIPTION OF TREATMENT FACILITIES:

3.1 Submit a flow diagram through all treatment units showing size, volumes, detention times, organic loadings, surface settling rate, weir overflow rate, and other pertinent design data. Include hydraulic profiles and description of monitoring systems.

3.2 Waste Treatment Works is: Batch , Continuous X; No. of Batches/day , No. of Shifts/day 3

3.3 Submit plans and specifications for proposed construction. N/A (Existing System)

3.4 Discharge is: Existing X; Will begin on N/A

4. DIRECT DISCHARGE IS TO: Receiving Stream N/A Municipal Sanitary Sewer X, Municipal storm or municipal combined sewer N/A. If receiving stream or storm sewer indicated complete the following:

Name of receiving stream N/A; tributary to ;
tributary to ; tributary to

5. Is the treatment works subject to flooding? If so, what is the maximum flood elevation of record (in reference to the treatment works datum) and what provisions have been made to eliminate the flooding hazard? Pretreatment works not subject to flooding.

6. APPROXIMATE TIME SCHEDULE: Estimated construction schedule: N/A (Existing System)

Start of Construction ; Date of Completion

Operation Schedule ; Date Operation Begins

100% design load to be reached by year

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SCHEDULE N WASTE CHARACTERISTICS

1. Name of Project Amphenol Pretreatment Plant

2. FLOW DATA

EXISTING

PROPOSED-DESIGN

2.1 Average Flow (gpd)

200,000

288,000

2.2 Maximum Daily Flow (gpd)

350,000

432,000

2.3 TEMPERATURE

(Ambient) Discharge to MSD.

Time of
year

Ave. Intake
Temp. F

Avg. Effluent
Temp. F

Max. Intake
Temp. F

Max. Effluent
Temp. F

Max. Temp. Out-
side Mixing
Zone F

SUMMER

WINTER

2.4 Minimum 7-day, 10-year flow: N/A cfs N/A MGD.

2.5 Dilution Ratio: N/A; N/A

2.6 Stream flow rate at time of sampling N/A cfs N/A MGD.

3. CHEMICAL CONSTITUENT Existing Permitted Conditions ; Existing conditions X; Proposed Permitted Conditions .

Type of sample: grab (time of collection); X composite (Number of samples per day 48)

(see instructions for analyses required)

Constituent	RAW WASTE (mg/l)	TREATED EFFLUENT Avg. (mg/l) Max.	UPSTREAM DOWNSTREAM SAMPLES (mg/l) (mg/l)
Ammonia Nitrogen (asN)	NTF	NTF	NTF
Arsenic (total)	NTF	"	"
Barium	NTF	"	"
Boron	NTF	"	"
BOD ₅	NTF	"	"
* Cd Cadmium	NTF	1.001 PPM	"
Carbon Chloroform Extract	NTF	NTF	"
Chloride	NTF	"	"
Chromium (total hexavalent)	NTF	"	"
* Cr Chromium (total trivalent) Total Chromium	NTF	6.048 PPM	"
* Cu Copper	NTF	0.728	"
** Cn, I Cyanide (total)	NTF	.800	"
Cyanide (readily released @150°F & pH 4.5)	NTF	NTF	"
Dissolved Oxygen	NTF	"	"
Fecal Coliform	NTF	NTF	NTF